(FILE 'HOME' ENTERED AT 16:57:44 ON 09 JUL 1997)

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FILE 'BIOSIS, CA, MEDLINE' ENTERED AT 16:58:04 ON 09 JUL 1997
              2 FILE BIOSIS
L1
L2
              2 FILE CA
              O FILE MEDLINE
L3
     TOTAL FOR ALL FILES
              4 EGGSHELL# (5A) CRUSH?
L4
L5
              3 FILE BIOSIS
              5 FILE CA
L6
              O FILE MEDLINE
L7
     TOTAL FOR ALL FILES
              8 EGGSHELL#(5A) (MILL? OR GRIND? OR GROUND)
L8
              7 DUPLICATE REMOVE L8 (1 DUPLICATE REMOVED)
L9
              0 FILE BIOSIS
L10
L11
              O FILE CA
              O FILE MEDLINE
L12
     TOTAL FOR ALL FILES
              O PUTAMEN OVI
L13
           4535 FILE BIOSIS
L14
L15
           2923 FILE CA
           4973 FILE MEDLINE
L16
     TOTAL FOR ALL FILES
          12431 PUTAMEN
L17
     FILE 'WPIDS' ENTERED AT 17:04:26 ON 09 JUL 1997
L18
              6 L4
              6 L8
L19
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COPYRIGHT 1997 DERWENT INFORMATION LTD ANSWER 1 OF 6 WPIDS L18 96-366170 [37] WPIDS ANDNC C96-115431 DNN N96-308467 membrane sepg. device - comprises ***crusher*** ***Eqqshell*** TI which operates in water flow, and liq. cyclone to separate shells and membranes by specific gravity difference. D22 J01 P34 P41 DC (OPPP) OP CORP PA CYC JP 08173838 A 960709 (9637)* PΙ 7 pp JP 08173838 A JP 95-178653 950714 ADT941025 PRAI JP 94-260497 UPAB: 960918 AB JP08173838 A Eggshell and membrane sepg. device comprises (a) a ***crushing*** device (3) to ***crush*** ***eggshell*** with an an ***eggshell*** membrane in a water flow for conveyance and (b) a lig. cyclone (9) to receive the ***crushed*** ***eggshell*** ***eggshell*** membrane and water for transfer, and separate the eggshell and the eggshell membrane from each other by utilising specific gravity differences. ADVANTAGE - Eggshell and membrane are sepd. from each other

ADVANTAGE - Eggshell and membrane are sepd. from each other with high efficiency.

Dwg.1/7

ANSWER 1 OF 6 WPIDS L19 96-268245 [27] AN WPIDS DNC C96-085171 Milk prods. contg. finely ***ground*** ***eggshell*** TIhaving good taste in a calcium fortified foodstuff. D13 DC' GLAS, C; SCHAAFSMA, A IN (FRIE-N) FRIESLAND BRANDS BV PACYC 68 WO 9615678 A1 960530 (9627) * EN 17 pp PIRW: AT BE CH DE DK ES FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG W: AL AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TT UA UG US UZ VN 960701 (9631) NL 9401958 A 13 pp AU 9539380 A 960617 (9638) ZA 9509881 A 961030 (9649) 14 pp WO 9615678 A1 WO 95-NL396 951121; NL 9401958 A NL 94-1958 941123; AU ADT 9539380 A AU 95-39380 951121; ZA 9509881 A ZA 95-9881 951121 AU 9539380 A Based on WO 9615678 FDT PRAI NL 94-1958 941123 WO 9615678 A UPAB: 960710 AB Foods based on milk prods. are supplemented with aseptically obtd. and/or sterilised or low-germ fine ***ground*** ***eggshell***

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USE - Prods. are fortified and have good taste. Dwq.0/0

L9 ANSWER 7 OF 7 CA COPYRIGHT 1997 ACS

AN 74:103024 CA

TI Use of eggshell compositions for promoting wound healing

IN Balassa, Leslie L.

SO U.S., 3 pp. CODEN: USXXAM

PI US 3558771 710126

AI US 680212

DT Patent LA English

AB Finely ***ground*** (40-70 .mu. particle size) ***eggshells*** are effective in the title use whether or not membrane is present. Application methods are the same as those given for animal membrane prepns. in U.S. 3,400,199 (CA 69: 99397u).

L19 ANSWER 6 OF 6 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD

AN 72-01195T [01] WPIDS

TI Wound accelerator - contg eggshells and citric or phosphoric acid opt with magnesium and calcium salts and chitin.

DC B05 B06

PA (LESC-N) LESCARDEN LTD

CYC 1

PI US 3624201 A (7201)*

PRAI US 68-704540 680212

AB US 3624201 A UPAB: 930000

Process for the acceleration of wound-heating in humans and other mammals comprises the topical or parenteral administration of a therapeutically effective dose of a finely-divided reaction product prepd. by ***grinding*** ***eggshells*** contg. CaCO3 with citric or phosphoric acid to produce the Ca salt of the acid so that the reaction product, when administered, contains no unreacted acid.

L9 ANSWER 5 OF 7 CA COPYRIGHT 1997 ACS

AN 98:103492 CA

TI Egg shell as a carrier for enzyme immobilization

AU Makkar, H. P. S.; Sharma, O. P.

CS Biochem. Lab., Indian Vet. Res. Inst., Palampur, 176 061, India

Biotechnol. Bioeng. (1983), 25(2), 595-7

CODEN: BIBIAU; ISSN: 0006-3592

DT Journal

SO

LA English

Enzyme immobilization on egg shell carrier was investigated. Thus, ***ground*** ***eggshell*** (0.5 g of 100 mesh) was added to 12 mL of a .beta.-galactosidase soln. (protein 0.4 mg/mL) and stirred for 15 min. Glutaraldehyde (25%) was slowly added with stirring to bring to a final concn. of 2.0%. The mixt. was allowed to stand for 30 min at 4.degree., then bound enzyme was sepd. by centrifugation and washed with phosphate buffer. The immobilized enzyme had pH and temp. optimums of 6.5 and 45.degree., resp., and was stable for 2 days at 4.degree..

L19 ANSWER 2 OF 6 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD

AN 93-150083 [18] WPIDS

DNC C93-067166

TI Prodn. of fodder additive for egg-laying hens - from poultry-farm waste, by washing, milling, sterilising, and mixing with alumino-silicate components.

DC D13

IN KUZNETSOV, A F; LAVRENTEV, V A; MUKHINA, N V

PA (LENE-R) LENGD NEVSKAYA POULTRY WKS; (LEVE) LENGD VETERINARY INST

CYC 1

PI SU 1732907 A1 920515 (9318)* 8 pp

ADT SU 1732907 A1 SU 90-4812293 900226

PRAI SU 90-4812293 900226

AB SU 1732907 A UPAB: 931112

The method comprises prodn. of food additive on basis of poultry farm waste (low grade meat, intestines, ovaries, ovarian ducts, heads, entrails, lungs, kidneys, trachea, stomachs, blood, down, downgrade egg waste, chicken embryos, ***eggshells***, etc.). The waste is washed, ***milled***, sterilised and mixed at final stages of drying (15-20 min before unloading) with aluminosilicates in form of zeolite, vermiculite, kieselguhr or perlite, in amt. 20-50% per wt. of starting waste.

Addn. of aluminosilicates results in stabilisation of fat components of additive, reduces its acid No. directly after prepn. and on storage, ensures uniform distribution of active substances within the mass of additive and reduces caking tendency of additive during storage. Obtd. additive is fed to chicks and hens in amt. 5-10% per wt. of standard feed.

USE/ADVANTAGE - Used in fodder industry for prodn. of feed additive for chicken and egg-laying hens. The additive improves quality of chicken feed, survival rate, egg-laying efficiency and strength of egg-shells. Bul. 18/15.5.92
Dwg. 0/0

ANSWER 3 OF 6 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD L19 AN 92-132525 [17] WPIDS DNC C92-062002 N92-098881 DNN Calcium addn. to cooking salt - in form of ***ground*** TIflour, for improved nutritional value. ***eggshell*** DC D13 SAMARTANO, M L IN (SAMA-I) SAMARTANO M L PA CYC BR 9004780 A 920324 (9217)* PΙ ADT BR 9004780 A BR 90-4780 900919 PRAI BR 90-4780 900919 UPAB: 931006 BR 9004780 A AB Nutritional value of compsn. is increased by addn. of calcium in the form of eggshell flour, made by washing, drying and baking the shells, then milling into flour. (8/9)

ANSWER 4 OF 6 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD L19 AN88-004848 [01] WPIDS C88-002404 DNC Cosmetic material contg. powdered egg-shell - has good absorptivity TIfor oils and moisture. DC D21 (SHIS) SHISEIDO CO LTD PΑ CYC PΙ JP 62270511 A 871124 (8801) * 5 pp JP 62270511 A JP 86-115037 860520 ADT PRAI JP 86-115037 860520 UPAB: 930923 AΒ JP62270511 A Cosmetic material is prepd. by blending powdered eggshell. Typically, the powder is obtd. by ***grinding*** ***eggshells*** of fowls, quails, etc. pref. to a grain size of 0.001-1,000 (sic) using an atomiser, etc. ADVANTAGE - Cosmetic material has high absorptivity for moisture and oils.

SWER 5 OF 6 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD

AN 77-36815Y [21] WPIDS

TI Plastic food container cleaning compsn. - comprises press. spray contg. alkali, insol. material and surfactant.

DC D14

PA (PYRN) PYRENE CHEM SERVICE

CYC 1

PI GB 1474389 A 770525 (7721)*

PRAI GB 73-28785 730618

AB GB 1474389 A UPAB: 930901

Contaminated surfaces are cleaned by forcibly spraying an alkaline suspension (pH pref. >=8) contg. e.g. 0.01-5, (pref. 1) wt.% of finely divided insol. material (I), e.g. <=3 wt. % of a sol. surfactant (II) and e.g. <=5 wt. %sol. alkali (III) e.g. alkali metal silicate or phosphate.

The compsn. is pref. made by diluting in water to give a dissolved and undissolved total solids content of 1-13 wt.%, a dry mixt. of 5-75 wt.% (I), 0.5-20 wt.% (II) and 5-75 wt.% (III).

The free rinsing compsn. is esp. useful for cleaning plastic food transport containers. In an example, a dry concentrate contd. 0.5 pbw Na metasilicate, 0.4 pbw Na3PO4, 0.6 pbw Na2CO3, 0.25 pbw K. oleic acid sulphonate, 0.1 pbw hydroxyethyl cellulose and 1 pbw ***ground*** ***eggshells***.

COPYRIGHT 1997 DERWENT INFORMATION LTD WPIDS ANSWER 2 OF 6 L18 WPIDS AN93-330532 [42] 83-767559 [38] CR C93-145978 DNC Quality improver for noodles - comprises eggshells composed of TI calcium carbonate. DC D13 (QPPP) QP CORP PACYC 1 JP 05236893 A 930917 (9342)* 3 pp PΙ JP 06085697 B2 941102 (9442) JP 05236893 A Div ex JP 82-14895 820203, JP 90-402272 820203; JP ADT 06085697 B2 Div ex JP 82-14895 820203, JP 90-402272 820203 JP 06085697 B2 Based on JP 05236893 FDT 820203 820203; JP 90-402272 PRAI JP 82-14895 UPAB: 931202 AB JP05236893 A The quality improver for noodles comprises ***crushed*** ***eggshells*** composed of CaCO3. USE - For obtaining healthy and inexpensive quality improver for noodles which can be substd. for a phosphate or propylene glycol.

Dwg.0/0

COPYRIGHT 1997 DERWENT INFORMATION LTD ANSWER 3 OF 6 WPIDS L18 AN 90-310105 [41] WPIDS C90-134115 DNC Purification of natural calcium material - comprises pulverising TIe.g. egg-shell and treating with e.g. halorate in alkaline soln. to remove protein impurities. B06 D13 E33 DC (ZENN-I) ZENNO H PA CYC JP 02221117 A 900904 (9041)* PΙ JP 08018829 B2 960228 (9613) 3 pp JP 02221117 A JP 89-41298 890220; JP 08018829 B2 JP 89-41298 890220 ADT JP 08018829 B2 Based on JP 02221117 FDT PRAI JP 89-41298 890220 JP02221117 A UPAB: 930928 AΒ Natural Ca material is purified by pulverising or ***crushing***

Natural Ca material is purified by pulverising or ***crushing***

eggshell , animal bone, shell or carapace if necessary, and
treating with halorite, halorate, perhalorate, halogen dioxides,
chloramines, isocyanuric halogenide, halogenated hydantoins,
peroxide, peracids or permanganate aq. soln. in alkaline aq. soln.,
alkaline halorite or neutral, alkaline or weak acidity.

USE/ADVANTAGE - Protein impurities can be removed completely, to give white material. Also there is a little discolouration. No toxic gas gas producing agent is used, danger is a little, it is suitable for industrial proceeding.

In an example, 100 ml of 5% NaOH aq. soln., 10 g of H2O washed and air dired eggshells were added and warmed at 95-98 deg C for 2 hrs. with stirring sometimes. Soln. light yellow. After cooling, sedimented eggshells were filtered, washed with H2O, and air-dried. Original colour of eggshell was not charged, but not shell membrane was observed. A small amt. of white foreign matters were floated in soln., but can be removed completely by H2O washing.

ANSWER 4 OF 6 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD L18 88-311493 [44] WPIDS AN C88-137684 DNC Flocculant for water purificn. - comprises micro powder of calcium ΤI carbonate or crushed rock. DC D15 (HOND-I) HONDA S PA CYC JP 63229111 A 880926 (8844)* PΙ 5 pp JP 63229111 A JP 87-136392 870530 ADT 870530 PRAI JP 86-239653 861008; JP 87-136392 UPAB: 930923 JP63229111 A AB The flocculant consists of micro powder of calcium carbonate or crushed rock powder having 0.05 - 0.001 mmtheta particle dia.. The calcium carbonate is e.g. ***eggshell*** of chicken. rock is e.g. granite, basalt. Calcium ***crushed*** The carbonate or crushed rock is pref. shattered with a mill to 0.05 -0.001 mmtheta powder. Addition of little water brings smooth operation. Waste water is passed through a screen to remove waste solid. The flocculant is added to the filtrated waste water to

USE/ADVANTAGE - The flocculant has adsorptive flocculation effect and filtration effect of waste material in waste water. The flocculant is harmless to dispose, because it is not a chemical product, and has economical cost.

adsorb and to filtrate micro dust in the waste water.

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84-229077 [37] WPIDS AN

C84-096805 DNC

Calcium prepn. for oral medicinal use - comprising finely crushed TIdried egg shells.

DĈ B04

(ONOD-I) ONODA M PA

CYC

JP 59137415 A 840807 (8437)* 3 pp PI

JP 59137415 A JP 83-9757 830124 ADT

PRAI JP 83-9757 830124

UPAB: 930925 JP59137415 A AB

> Prepns. are obtd. by finely ***crushing*** ***eggshells*** and formulating into oral prepns...

Suitably fresh eggshells as raw material after elimination of yolk and albumen was washed well with water or warm water and dried at temps. below 80 deg.C (at higher temps.. the live phage dies, and calcium and other minerals are denatured). The dry eggshells are placed in a pulveriser and pulverised at 3600 rpm for 12 mins. at a temp. lower than 80 deg.C. The pulverised eggshell is shifted through a 300 mesh sieve, by which 85% powder is passed, the remaining 15% shell is further pulverised.

USE/ADVANTAGE - Eggshell contains 95.4% CaCO3, 1.5% MgCO3, 0.18% H2PO4 and 3.3% proteins as well as live lambda-phage contg. DNA, which can be utilised as mineral source. Moreover eggshell changes acidic constitution in man into slightly alkaline condition.

ANSWER 6 OF 6 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD

AN 84-110170 [18] WPIDS

DNN N84-081532 DNC C84-046579

TI Processing egg-shells to separate residual adhering egg white etc. - involves drying before or after crushing and subjecting to air

sepn..

DC C03 C04 D13 P43

PA (QPPP) QP CORP

CYC 1

PI JP 59049878 A 840322 (8418)* 5 pp

ADT JP 59049878 A JP 82-161394 820916

PRAI JP 82-161394 820916

AB JP59049878 A UPAB: 930925

Eggshells obtained by separating egg liq. from eggs which have been cracked are dried after or before ***crushing***, and separated into ***eggshell*** film portion and outer shell portion through air sepn. The outer shell portion obtained includes less than 10% of the eggshell film which was present initially on the ***eggshells***. The outer shell portion is ***crushed*** to use as livestock feed, fertiliser, or clarifier.

By this method, powder of eggshell may be provided without the necessity for washing which is required in the conventional methods to prevent occurrence of smell due to eggshell film. Further, the egg shell film can be used in removing heavy metals. 0/0

- L9 ANSWER 2 OF 7 CA COPYRIGHT 1997 ACS
- AN 119:15151 CA
- TI Bicarbonate-based dentifrice with reduced abrasive properties
- IN Sklyar, Vasilij E.; Kozlyanina, Natalya P.; Tereshina, Tatyana P.; Makhlis, Grigorij L.; Tarasenko, Viktor A.; Gorshkova, Nina V.; Danilova, Aleksandra P.; Misyura, Nikolaj G.
- PA Od nii stomatologii, USSR; Krasnodarskaya parfyumernokosmeticheskaya fabrika
- SO U.S.S.R.
 - From: Izobreteniya 1992, (30), 21-2.
 - CODEN: URXXAF
- PI SU 1754104 A1 920815
- AI SU 89-4646675 890105
- DT Patent
- LA Russian
- AB A NaHCO3 dentifrice contains a caries-inhibiting coating for teeth with reduced abrasive properties which is supplemented with preservative, finely ***ground*** ***eggshell*** and chalk. The dentifrice contains NaHCO3 35-45, starch 7-9, finely ***ground*** ***eggshell*** 7-9, ascorbic acid 0.4-0.8, nicotinic acid 0.09-0.15, thiamine bromide 0.01-0.05, preservatives 0.2-0.4, sweetening agents 0.2-2.0, aroms. 0.5-1.5 wt.% with the balance chalk.